

BOYA

Ultracompact 2.4GHz Dual-Channel Wireless Microphone System

2.4GHz 迷你双通道无线麦克风系统

BY-XM6-S1 Mini
BY-XM6-S2 Mini

User Manual
用户手册



General Introduction

BOYA BY-XM6 S1/ S2 Mini kit is an incredibly lightweight, ultracompact and easy-to-use wireless microphone system for up to 2 people.

The microphone delivers exceptional, broadcast-quality sound to DSLR, mirrorless and video cameras, smartphones, tablets, computers, etc.

The kits are ideal for content creation, vlogging, mobile journalism, and more.

Available Kits

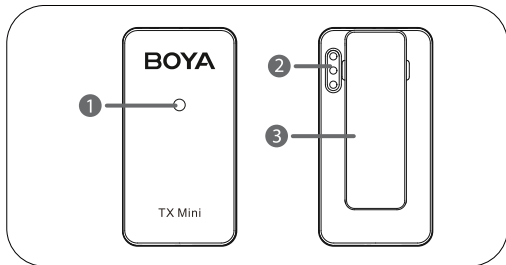
Model	In the box
BY-XM6-S1 Mini	1×BY-XM6 TX Mini 1×BY-XM6 RX
BY-XM6-S2 Mini	2×BY-XM6 TX Mini 1×BY-XM6 RX

Cautions

1. Disintegration of this device by non-professionals is strictly prohibited.
2. Please keep it away from heat sources such as heaters or ovens.
3. Do not remove the battery without professionals' help.
4. Please clean the device with only a soft, dry cloth.
5. When using and storing, please pay attention to dust and moisture.
6. For the best pick-up pattern, do not hold your hand against the microphone capsule cover.

Product Structure

Wireless Transmitter BY-XM6 TX Mini



1. Status indicator

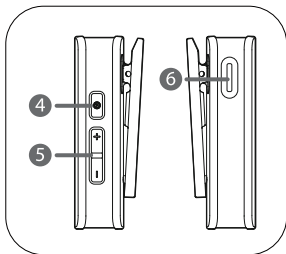
Mode	Indicator
Unpaired	Blinks blue slowly (per second)
Pairing	Blinks blue quickly
Paired Successfully	Static blue light
Mute ON	Blinks red slowly (per second)
Mute OFF	Red light off
Maximum/Minimum Gain	Blinks blue twice quickly
Low Battery	Blinks red quickly
Charging	Static red light
Fully Charged	Red light off

2. Charging contacts

3. Belt clip

4. Power/Mute button

Function	Operation
Power ON	Press and hold for 3s
Power OFF	
Mute ON	Short press
Mute OFF	

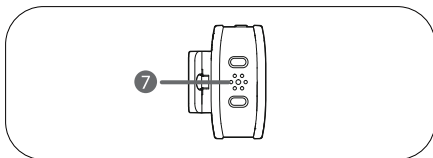


5. +/-/Pair button

- Press +/- button to adjust mic gain.
(The setting is retained even after the power is turned off.)
- Long press the Pair button for 3s (press both "+" and "-" buttons at the same time) to enter pairing mode.

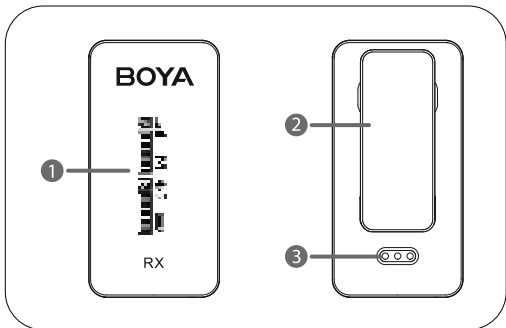
6. USB-C charging port (DC 5V)

- Use the supplied USB-C charging cable to charge the unit.



7. Built-in microphone

Wireless Receiver BY-XM6 RX



1. OLED display

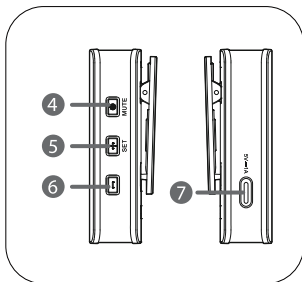
- For more details, please refer to "OLED Display Operation Guide".

2. Belt clip

3. Charging contacts

4. Power/Mute button

Function	Operation
Power ON	Long press
Power OFF	
Mute ON	Short press
Mute OFF	



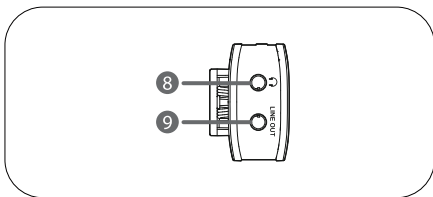
5. +/SET button

Function	Operation
+	On home screen, short press to increase output volume.
	On menu screen, short press to select different functions or values shown on the display.
SET	On home screen, long press to enter the menu screen.
	On menu screen, long press to enter the displayed menu. Then, long press again to confirm your option.

6. - button

- On home screen, short press to decrease output volume.
- On menu screen, short press to select different functions or values shown on the display;
- Long press to return to home screen.

7. USB-C charging port (DC 5V)



8. 3.5mm headphone output

- Connect headphones for audio monitoring.

9. LINE OUT jack

- Connect the BY-XM6 RX to a smartphone, tablet, camera, recorder or mixer with the supplied output cables.

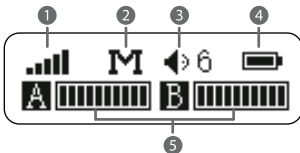
OLED Display Operation Guide

Wireless Receiver BY-XM6 RX

Home screen



If no operation is performed within 20 seconds on other screens, the display will automatically return to home screen.



1. Pairing indicator

Paired successfully Disconnected Pairing

2. RX's output mode

M: Mono S: Stereo

3. Output volume & Mute indicator

on home screen, press +/- button to adjust the output volume.

Mute ON Mute OFF

4. RX's battery level indicator

Displays the RX battery level. Please recharge the device immediately when the indicator starts flashing.

5. Audio input level meter

Displays the audio input level.

Menu screen



On home screen, long press SET button to enter menu screen.
On menu screen, long press - button to return to home screen.



Connect Yes?

Connect Setting

Pair with the transmitter. For details of operation, please refer to "Operation Guide".



Backlight On

Backlight Setting

Set backlight to always on or on for 10/30/60 seconds.
Default is "On".



Mute Enable

Mute Key Setting

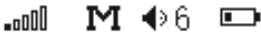
Enable or disable mute key button function.
Default is "Enable".



Volume 6/6

Output Volume Setting

Output volume can be set from 0 to 6.
Default is "5".



Output Mono

Output Mode Setting

The output mode can be set to either mono or stereo. When in mono mode, the audio from the transmitter, or transmitters will be mixed to both the left and right sides. When in stereo mode, the two transmitters' audio output will be separated to the left and right sides. Default is mono.

Language English

Language Setting

English or Chinese are available.

Default is English.

Restore Yes?

Restore Default Setting

Version V1.10

Version of the BY-XM6 RX

Operation

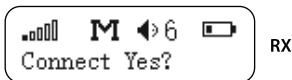
For the BY-XM6-S1 Mini / BY-XM6-S2 Mini kit

1. Long press the power button to turn on the transmitter and the receiver.

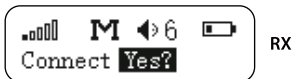
2. Pairing

Before leaving factory, the system is pre-paired. Therefore, the connection will be established once they are powered on. If they are disconnected, please follow below steps:

- ① Long press the SET button to make the receiver enter menu screen.
- ② Use the + or -button to display the Connect setting menu on receiver.



- ③ Long press the SET button to select the menu.



- ④ Select Yes, and long press the SET button to confirm.

⑤ Press and hold the TX Mini's pair button (+, -) for 3s at the same time to enter pairing mode. The indicator will flash blue rapidly.

⑥ Transmitter and receiver will be successfully paired within 10s. The indicator of the transmitter will turn static blue, while the indicator  on the receiver will change to .

3. Connect the receiver to the mic input of a camera, recorder or mixer with the supplied 3.5mm TRS to TRS cable. Or connect the RX to a smartphone, tablet, or computer with the supplied 3.5mm TRS to TRRS cable.

4. You are ready to record.



Note: Due to 2.4GHz wireless frequency, signal can be easily attenuated. Please try to avoid obstacles, such as walls and buildings, and avoid close proximity to devices with 2.4GHz signal, such as high-power Wi-Fi antennas, radios, etc.

Specifications

BY-XM6 TX Mini Transmitter

Transmission Type	2.4GHz ISM Frequency
Modulation	GFSK
Operating Range	Up to 328ft (100m) (without obstacle)
RF Output Power	<10mW
Polar Pattern	Omnidirectional
Frequency Response	35Hz-18KHz
Maximum SPL	120dB SPL
Sensitivity	-39dB
SNR	> 77 dB
Power Requirements	Built-in Li-ion Battery or USB-C DC 5V or Charging
Built-in Battery Life	Contact
Antenna	Approx. 4.5 hours
Audio Inputs	PIFA Antenna
Weight	Built-in Microphone
Dimensions	Approx. 14.5g(0.5oz)
Operating	46x23.92x15mm
Temperature	-10°C to 50°C
Storage Temperature	-20°C to +55°C

BY-XM6 RX Receiver

Transmission Type	2.4GHz Digital Frequency
Modulation	GFSK
Operating Range	Up to 328ft (100m) (without obstacle)
Audio Output	3.5mm Headphone Jack
Connector	3.5mm TRS Output Jack
	-60 dBV to -20dBV
Audio Output Level	Built-in Li-ion Battery or USB-C DC 5V or Charging
Power Requirements	Contact
Built-in Battery Life	Approx. 7 hours
Antenna	PIFA Antenna
Weight	Approx. 32g(1.13oz)
Dimensions	62.1×31.6×16.5mm
Operating Temperature	-10°C to 50°C
Storage Temperature	-20°C to +55°C

Features

- 2.4GHz wireless transmission technology
- Ideal for content creation, vlogging, mobile journalism, and more
- Delivers exceptional, broadcast-quality sound
- Ultracompact mini clip-on transmitter and dual-channel receiver
- Easy-to-use OLED display
- Real-time headphone monitoring
- Operating range of up to 100m
- High-quality built-in microphone
- Selectable mono/stereo output

Packing List

BY-XM6-S1 Mini Kit

1× BY-XM6 TX Mini Transmitter

1× BY-XM6 RX Receiver

2× USB-C Charging Cable

1× Fur Windshield for Built-in Microphone

1× 3.5mm TRS to TRS Output Cable for Cameras

1× 3.5mm TRS to TRRS Output Cable for Smartphones

BY-XM6-S2 Mini Kit

2× BY-XM6 TX Mini Transmitter

1× BY-XM6 RX Receiver

1× USB-A to Triple Head USB-C Charging Cable

2× Fur Windshield for Built-in Microphone

1× 3.5mm TRS to TRS Output Cable for Cameras

1× 3.5mm TRS to TRRS Output Cable for Smartphones

概述

感谢您选择BOYA!

博雅BY-XM6 S1/ S2 Mini套件采用的是迷你双通道无线麦克风系统，提供出色的广播级音质，适用于单反、无反相机、摄像机、手机、平板电脑等设备，是内容创作、Vlog拍摄、街头采访等场景的理想选择。

BY-XM6组合套装

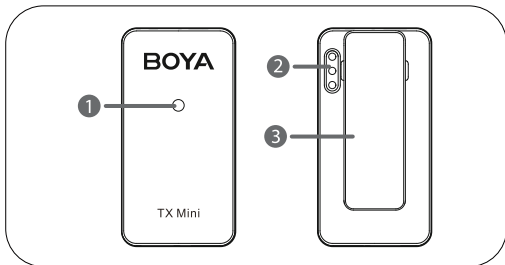
型号	套装内容
BY-XM6-S1 Mini	1xBY-XM6 TX Mini 1xBY-XM6 RX
BY-XM6-S2 Mini	2xBY-XM6 TX Mini 1xBY-XM6 RX

注意事项

1. 请勿擅自拆开机壳；
2. 请勿将本机靠近热源，如加热器、烤箱或其他产生热量的设备；
3. 电池不可自行更换；
4. 请使用柔软的干布清洁本设备；
5. 在使用和储存时，请注意防尘和防潮。
6. 为获得最佳拾音模式，请勿将手放在麦克风咪头上。

产品结构

无线迷你发射器BY-XM6 TX Mini



1. 状态指示灯

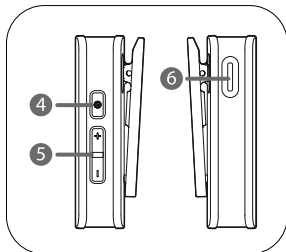
模式	指示灯状态
未联机	蓝灯慢闪（每秒一次）
对码中	蓝灯快闪
联机成功	蓝灯常亮
静音模式	红灯慢闪（每秒一次）
取消静音	红灯熄灭
最大/最小增益	蓝灯快闪两次
低电量	红灯快闪
充电中	红灯常亮
充满电	红灯熄灭

2. 充电触点

3. 背夹

4. 电源键/静音键

功能	操作
开机/关机	长按按键3秒
静音开启	短按按键
静音关闭	



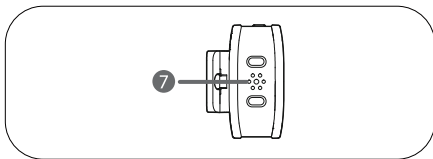
5. +- / 配对键

– 按+或-键调节麦克风增益（即使在电源关闭后，该参数设定仍然保留）。

– 长按 pair 键（+-键同时按），发射器进入对码状态。

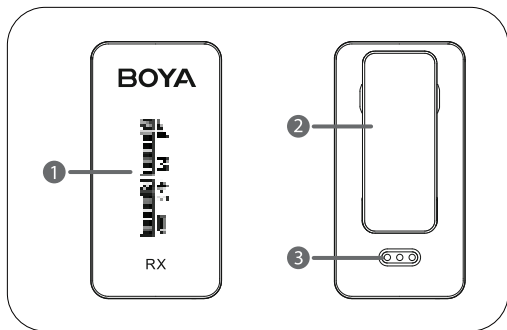
6. USB-C充电口（直流电5V）

– 使用随附的USB-C充电线进行充电。



7. 内置麦克风

无线接收器BY-XM6 RX



1. OLED显示屏

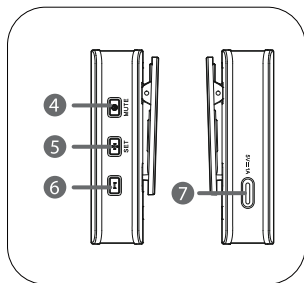
– 详情参考“OLED屏幕操作指南”。

2. 背夹

3. 充电触点

4. 电源键/静音键

功能	操作
开机	长按
关机	
静音开启	短按
静音关闭	



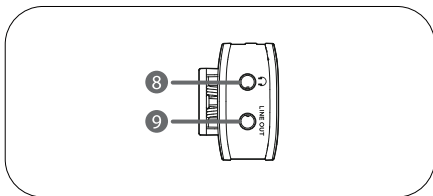
5. +/SET键

功能	操作
+	在主界面上，短按+键调节输出音量；
	在菜单界面上，短按+键调整各参数值或功能。
SET	在主界面上，长按设置键进入菜单界面；
	在菜单界面，长按设置键进入选定界面，再次长按保存设定。

6. - 键

- 在主界面上，短按-键减小输出音量；
- 在菜单界面上，短按-键调整各参数值或功能；
- 长按-键回到主界面。

7. USB-C充电口（直流电5V）



8. 3.5mm耳机插孔

- 接入耳机进行音频监听。

9. LINE OUT线性输出孔

- 使用随附输出线，将 BY-XM6 RX 连接至手机、平板电脑、相机、录音笔或混音器等设备。

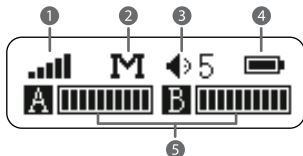
OLED屏幕操作指南

无线接收器BY-XM6 RX

主界面



若超过20秒不操作，显示屏会自动跳转回主界面上。



1. 配对状态标识

■ ■ ■ ■ 联机成功 □ □ □ □ 未联机 (●●) 对码中

2. 接收器输出模式

M: 单声道 S: 立体声

3. 输出音量、静音状态指示

在主界面上，短按+/-键可调节音量大小。

🔇 静音开启 🔊 静音关闭

4. 接收器电量指示

显示接收器电量情况，若图标为空格且开始闪烁，请及时进行充电。

5. 实时输入电平指示

显示实时输入电平大小。

菜单界面



在主界面上，长按+/SET键，可进入菜单页面；
在菜单界面，长按-键，可返回到主界面。



连接设置

与发射器配对，具体操作请参考“操作指南”。



背光时间设置

背光灯时间可设置为常亮、10秒、30秒、或60秒，默认设置为“常亮”。



静音按键功能设置

开启或关闭静音按键功能，默认设置为“开启”。



输出音量设置

输出音量调节范围（0~6），默认设置为“5”。



输出模式设置

输出模式可以设置为单声道或立体声。当在单声道模式，音频将混合到左右两边。在立体声模式下，两个发射器的音频输出将左右分开。默认设置为“单声道”。

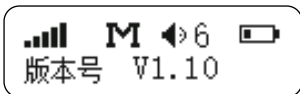


语言设置

English/中文可供选择，默认设置为“English”。



恢复默认设置



BY-XM6 RX版本号

操作指南

BY-XM6-S1 Mini/ BY-XM6-S2 Mini套装：

1. 长按电源键，将发射器、接收器开机。

2. 配对

发射器和接收器出厂前已配对成功。因此，产品开机之后会自动联机。

若无成功连接，请进行如下配对操作：

① 长按接收器SET键进入菜单界面。

② 使用+或-按钮在接收器上选择“连接请求”菜单。



接收器

③ 长按SET键进入菜单。



接收器

④ 选择是，长按SET键确认。

- ⑤ 同时长按发射器对码按键 (+, -) 3秒, 发射器进入对码状态, 指示灯呈蓝灯快闪。
- ⑥ 发射器和接收器将在 10 秒内完成配对。配对成功后, 发射器指示灯呈蓝灯常亮, 接收器  图标变为状态  。
3. 使用随附的 3.5mm TRS转TRS转接线将接收器连接至相机、录音笔或混音器等设备。或者使用随附的3.5mm TRS 转TRRS转接线将接收器连接至手机、平板电脑等移动设备。
4. 开始录制。



注意: 由于在2.4GHz频谱下, 信号很容易受干扰, 请尽量避开墙壁和建筑物等障碍物, 避免接近2.4GHz频率的设备, 如大功率WiFi天线、收音机等。

参数

BY-XM6 TX Mini 发射器

传输方式	2.4GHz ISM频段
信号调制	高斯频移键控
操作距离	最远至100米（无障碍）
射频输出功率	<10mW
极性模式	全向型
频率响应	35Hz-18KHz
最大声压级	120dB SPL
灵敏度	-39dB
信噪比	> 77 dB
供电方式	内置锂电池供电 / USB-C直流电5V / 充电盒触点充电
内置电池续航时间	约4.5小时
天线	PIFA天线
音频输入源	内置麦克风
重量	约14.5g
尺寸	46x23.92x15mm
工作温度	-10°C ~ 50°C
存储温度	-20°C ~ +55°C

BY-XM6 RX 接收器

传输方式	2.4GHz数字频段
信号调制	高斯频移键控
操作距离	最远至100米（无障碍）
音频输出口	3.5mm耳机插孔 / 3.5mm TRS输出孔
音频输出电平	-60 dBV至-20dBV
供电方式	内置锂电池供电 / USB-C直流电5V / 充电盒触点充电
内置电池续航时间	约7小时
天线	PIFA天线
重量	约32g
尺寸	62.1×31.6×16.5mm
工作温度	-10°C ~ 50°C
贮存温度	-20°C ~ +55°C

特点

- 2.4GHz无线传输技术
- 视频内容创作、移动新闻等的理想选择
- 提供卓越的广播级音质
- 小巧迷你背夹式发射器和双通道接收器
- 具有易于操作的OLED 显示屏
- 实时耳机监听功能
- 工作范围可达 100m
- 高品质内置麦克风
- 可自由切换单声道/立体声输出模式

包装清单

BY-XM6-S1 Mini套装

1× BY-XM6 TX Mini发射器

1× BY-XM6 RX接收器

2× USB-C充电线

1× 内置麦克风防风毛套

1× 3.5mm TRS转TRS相机输出线

1× 3.5mm TRS转TRRS手机输出线

BY-XM6-S2 Mini套装

2× BY-XM6 TX Mini发射器

1× BY-XM6 RX接收器

1× USB-A转三接头USB-C充电线

2× 内置麦克风防风毛套

1× 3.5mm TRS转TRS相机输出线

1× 3.5mm TRS转TRRS手机输出线

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地址:广东省深圳市龙华区观澜街道大富社区硅谷动力智能终端产业园A16栋

TEL: 400 6131096

Email: sales@boya-mic.com

www.boya-mic.com / www.jiayz.com